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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,533	11/14/2003	Pierre Druilhe	02356.0086	5870
22852	7590 06/26/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			MINNIFIELD, NITA M	
LLP 901 NEW YORK AVENUE, NW			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/712,533	DRUILHE ET AL.			
Office Action Summary	Examiner	Art Unit			
	N. M. Minnifield	1645			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	_•				
2a) This action is FINAL . 2b) This	action is non-final.				
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1,4,5,8-40 and 42-44 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1,4,5,8-40 and 42-44</u> are subject to re	striction and/or election requirem	ent.			
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) dojected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau		ed in this National Stage			
* See the attached detailed Office action for a list	•	ed.			
000 II.0 III.00 II.00 II					
. Attachment/c)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	atent Application (PTO-152)				
. apor 110(0)/11tan = atto	6) Other:				

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1. Applicants' preliminary amendment filed April 24, 2006 is acknowledged and has been entered. Claims 2, 3, 6, 7 and 41 have been canceled. Claims 1, 4, 5 and 8-40 have been amended. New claims 42-44 have been added. Claims 1, 4, 5, 8-40 and 42-44 are now pending in the present application.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 9(a), 10, 11 and 15-19, drawn to a polynucleotide, classified in class 536, subclass 23.1.
 - II. Claims 4, 5, 8, 9(b), 9(c), 9(d), 10, 11 and 42, drawn to a polypeptide and antigenic conjugate, classified in class 530, subclass 300.
 - III. Claims 12, 34(a) and 34(b), drawn to a process of immunizing and treating malaria comprising administering a polypeptide, classified in class 424, subclass 184.1.
 - IV. Claims 13 and 14, drawn to antibody, classified in class 530, subclass 388.1.
 - V. Claims 20-22 and 24-31, drawn to an immunogenic composition or vaccine comprising a protein antigen, classified in class 514, subclass 2, or class 424, subclass 268.1.
 - VI. Claim 23, drawn to an immunogenic composition comprising DNA, classified in class 514, subclass 44.
 - VII. Claims 32 and 33, drawn to a pharmaceutical composition comprising an antibody, classified in class 514, subclass 2.

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- VIII. Claim 34(c), drawn to a method of treating malaria comprising administering an antibody, classified in class 424, subclass 130.1.
- IX. Claims 35 and 37, drawn to an in vitro process of detecting malaria using an antibody, classified in class 435, subclass 7.22 or 7.1.
- X. Claims 12, 34(a) and 34(b), drawn to a method of treating malaria comprising administering DNA or a polynucleotide, classified in class 514, subclass 44.
- XI. Claims 36 and 43, drawn to an in vitro process of detecting malaria using an antigen, classified in class 435, subclass 7.22 or 7.1.
- XII. Claims 38 and 40, drawn to a kit comprising an antigen, classified in class 435, subclass 975.
- XIII. Claims 39 and 44, drawn to a kit comprising an antibody, classified in class 435, subclass 975.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and X or VI and X are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case product as claimed can be used in a materially different process of using that product. The DNA or polynucleotide can be used in a diagnostic assay or hybridization assay.

Inventions II and III/XI, V and III/XI or XII and III/XI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be

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practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case product as claimed can be used in a materially different process of using that product. The protein or polypeptide can be used in a diagnostic assay, a process to generate antibodies to the protein or polypeptide or affinity purification of an antibody.

Inventions IV and VIII/IX, VII and VIII/IX or XIII and VIII/IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case product as claimed can be used in a materially different process of using that product. The antibody can be used in a diagnostic assay or in an immuno-affinity purification process of purifying proteins.

Inventions III, VIII, IX, X and XI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions methods are distinct from one another because they have different goals as evidenced by the various preambles (i.e. immunizing, treating, detecting) as well as having different method steps, different components/compositions being used and different final outcomes. Therefore, each of the claimed methods is distinct from the other.

Inventions I, II, IV, V, VI, VII and VIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together

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and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions products are physically, structurally, biochemically and functionally distinct chemical entities that lack a common function and core structure.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

2. This application contains claims directed to the following patentably distinct species: the numerous nucleic acid or amino acid sequences as set forth in each of the different inventions. The species are independent or distinct because each of the sequences are physically, structurally, biochemically and functionally distinct chemical entities that lack a common function and core structure.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species (i.e. one SEQ ID NO) for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic sequence.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light

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of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.**

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. M. Minnifield whose telephone number is 571-272-0860. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette R.F. Smith can be reached on 571-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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NMM

June 9, 2006